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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: LaBrie et al.

Title: NOVEL HUMAN TUBBY HOMOLOG

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Washington, D.C. 20231

### SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figure(s) 1A, 1B, 1C, 1D, 2A, 2B, 3A, 3B, as eight (8) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **09-0108. A duplicate copy of this communication is enclosed.**

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

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[illegible]

FIGURE 1A

387	GTG GAT ACT	396	TCC AAG	405	CTT CAG GAG	414	CGT CTC	423	CAA AAG	432	CAT GAT ATC
	V D T A S K P G L Q E R L Q K H D I										
441	TCT GAA AGT	450	TTC AAC	459	GAG ACT	468	GAT GGA	477	ATA TCC	486	CAG TCA GCA TGT
	S E S V N F D E E T D G I S Q S A C										
495	TTA GAA AGA	504	CCC AAT	513	TCA AGC	522	CAG AAT	531	ACA ACC	540	GAT GGC ACT TCC
	L E R P N S A S S Q N S T D T G T S										
549	TCT GCT ACT	558	GCC CAA	567	GCT GAT	576	AAC CTC	585	GGA GAC	594	ATA GAC GAC
	G S A T A A Q P A D N L L G D I D D										
603	GAG GAC TTT	612	GTG TAT	621	GCT GCC	630	CGT CCA	639	GTA ACA	648	GTA TGT CGG
	L E D F V Y S P A P Q G V T V R C R										
657	ATC CGG GAT	666	AAA AGG	675	GAT CGG	684	GGT CTC	693	CCC ACC	702	TAC TAT ATG
	I I R D K R G M D R G L F P T Y M										
711	TTG GAA AAA	720	GAA AAT	729	CAG ATA	738	TTT CTT	747	GCA GCT	756	AGA AAG CGG
	Y L E K E E N Q K I F L L A A R K R										

FIGURE 1B

AAA	AAG	AGC	AAA	ACA	GCC	AAC	TAC	CTT	ATC	TCC	ATT	GAT	CCA	GTT	GAT	TTA	TCT	810
K	K	S	K	T	A	N	Y	L	I	S	I	D	P	V	D	L	S	
765	774	783	792	801	810	819	828	837	846	855	864	873	882	891	900	909	918	
CGT	GAA	GGA	GAA	AGT	TAT	GTC	GGC	AAG	CTT	AGA	TCC	AAC	CTC	ATG	GGG	ACC	AAG	
R	E	G	E	S	Y	V	G	K	L	R	S	N	L	M	G	T	K	
TTT	ACA	GTT	TAT	GAC	CGT	GGC	ATC	TGC	CCC	ATG	AAG	GGC	CGG	GGT	TTG	GTA	GGA	
F	T	V	Y	D	R	G	I	C	P	M	K	G	R	G	L	V	G	
927	936	945	954	963	972	981	990	999	1008	1017	1026	1035	1044	1053	1062	1071	1080	
GCG	GCC	CAC	ACC	CGG	CAG	GAG	CTG	GCT	GCC	ATC	TCC	TAT	GAA	ACA	AAC	GTA	CTT	
A	A	H	T	R	Q	E	L	A	A	I	S	Y	E	T	N	V	L	
GGA	TTT	AAA	GGT	CCT	AGG	AAA	ATG	TCT	GTG	ATC	ATT	CCT	GGA	ATG	ACA	CTG	AAT	
G	F	K	G	P	R	K	M	S	V	I	I	P	G	M	T	L	N	
CAT	AAG	CAG	ATC	CCC	TAT	CAG	CCA	CAA	AAC	AAC	CAT	GAC	AGT	TTG	CTC	TCA	AGG	
H	K	Q	I	P	Y	Q	P	Q	N	N	H	D	S	L	L	S	R	
TGG	CAG	AAC	AGA	ACT	ATG	GAA	AAT	CTG	GTT	GAG	CTG	CAC	AAC	AAG	GCC	CCC	GTC	
W	Q	N	R	T	M	E	N	L	V	E	L	H	N	K	A	P	V	

FIGURE 1C

1143	1152	1161	1170	1179	1188
TGG AAC AGT GAC ACT CAG TCC TAT GTC CTC AAC TTC CGT GGC CGG GTC ACT CAG					
W N S D T Q S Y V L N F R G R V T Q					
1197	1206	1215	1224	1233	1242
GCG TCT GTG AAG AAC TTC CAG ATA GTC CAC AAA AAT GAC CCT GAT TAT ATA GTC					
A S V K N F Q I V H K N D P D Y I V					
1251	1260	1269	1278	1287	1296
ATG CAG TTT GGA CGT GTG GCA GAT GAC GTG TTC ACA CTG GAT TAC AAC TAC CCA					
M Q F G R V A D D V F T L D Y N Y P					
1305	1314	1323	1332	1341	1350
CTT TGT GCA GTA CAG GCC TTT GGC ATC GGT CTT TCT AGC TTT GAC AAA CGT ATC					
L C A V Q A F G I G L S S F D K R I					
1359	1368	1377	1386	1395	1404
CAA ACC TTG AGA ATG CAG GAG CTC TGT TGT GAG CTC CAC CGT CAG CAC CAT TCA GCT					
Q T L R M Q E L C E L H R Q H H S A					
1413	1422	1431	1440	1449	1458
GCA TCC CTT GTG CAC AGG ACT GCC TGC CAG CGT TGG GTG GGA CAC CCG TGG CGG					
A S L V H R T A C Q R W V G H P W R					
1467	1476	1485	1494	1503	1512
CAG CTC CCT CAG TCT TCC CTT GTC GGC CCT GAC CTN TNA CTA CAT ATG TAG NAG					
Q L P Q Q S S L V G P D L X L H M					
1521					
CCC GAG ACC AAA AA 3'					

FIGURE 1D

	M	E	A	S	R	C	R	L	S	P	G	D	S	V	F	H	E	E	M	K	M	R	Q	A	K	L	D	Y	Q	R	L	L	L	E	K	R	Q		492199		
1	M	-	T	S	K	P	H	S	D	W	I	P	Y	S	V	L	D	E	G	S	N	L	R	Q	Q	K	L	D	R	Q	R	A	L	L	E	Q	K	Q	GI 1279766		
1	M	-	T	S	K	P	H	S	D	W	I	P	Y	S	V	L	D	E	G	R	N	L	R	Q	Q	K	L	D	R	Q	R	A	L	L	E	Q	K	Q	GI 1305497		
41	K	K	R	L	E	P	F	F	M	V	Q	P	N	P	E	A	R	L	R	R	A	K	P	R	A	S	D	E	Q	T	P	L	V	N	C	H	T	P	H	S	- 492199
40	K	K	R	Q	E	P	L	M	V	Q	A	N	A	D	G	R	P	R	S	R	R	A	R	Q	S	E	E	Q	A	P	L	V	E	S	Y	L	S	S	G	GI 1279766	
40	K	K	R	Q	E	P	L	M	V	Q	A	N	A	D	G	R	P	R	S	R	R	A	R	Q	S	E	E	Q	A	P	L	V	E	S	Y	L	S	S	G	GI 1305497	
80	-	-	-	-	-	-	-	-	-	-	-	[N	V	I	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	492199		
80	S	T	S	Y	Q	V	Q	E	A	D	S	I	A	S	V	Q	L	G	A	T	R	P	P	A	P	A	S	A	K	K	S	K	G	A	A	S	G	Q	GI 1279766		
80	S	T	S	Y	Q	V	Q	E	A	D	S	L	A	S	V	Q	L	G	A	T	R	P	T	A	P	A	S	A	K	R	T	K	A	A	T	A	G	Q	GI 1305497		
84	-	-	-	-	-	-	-	-	-	-	-	-	H	G	I	D	G	P	A	A	V	L	K	P	D	-	E	V	H	A	P	S	V	S	S	V	V	E	E	492199	
120	G	G	A	P	R	K	E	K	K	G	K	H	K	G	T	S	G	P	A	T	L	A	E	D	K	S	E	A	Q	G	P	V	Q	I	L	T	V	G	Q	GI 1279766	
120	G	G	A	P	R	K	E	K	K	G	K	H	K	G	T	S	G	P	A	L	A	E	D	K	S	E	A	Q	G	P	V	Q	I	L	T	V	G	Q	GI 1305497		
111	D	A	E	N	T	V	D	T	A	S	K	P	G	-	-	-	-	-	-	L	Q	E	R	L	Q	K	H	D	I	S	E	S	V	N	F	D	E	E	492199		
160	D	H	K	D	A	G	E	T	A	A	G	G	G	A	Q	P	S	G	Q	D	L	R	A	T	M	Q	R	K	G	I	S	S	M	S	F	D	E	D	GI 1279766		
160	D	H	A	Q	D	A	G	E	T	A	A	G	G	G	E	R	P	S	G	Q	D	L	R	A	T	M	Q	R	K	G	I	S	S	M	S	F	D	E	D	GI 1305497	
143	T	D	G	I	S	Q	S	A	C	L	E	-	-	-	-	-	-	-	-	R	P	N	S	A	S	S	O	N	S	T	D	T	G	T	S	G	S	A	T	A	492199
200	E	-	D	E	D	E	N	S	S	S	S	S	Q	L	N	S	N	T	R	P	S	A	T	S	R	K	S	I	R	E	A	A	S	A	P	S	P	A	A	GI 1279766	
200	E	E	D	E	E	E	N	S	S	S	S	S	Q	L	N	S	N	T	R	P	S	A	T	S	R	K	S	V	R	E	A	A	S	A	P	S	P	T	A	GI 1305497	
176	Q	P	A	D	N	L	L	G	D	I	D	D	L	E	D	F	V	Y	S	P	A	P																			

FIGURE 2A

216	GLFPT	Y	Y	M	Y	L	E	K	E	E	N	O	K	I	F	L	A	A	R	K	R	K	K	S	K	T	A	N	Y	L	I	S	I	D	P	492199					
278	GMYP	T	Y	F	L	H	L	D	R	E	D	G	K	K	V	F	L	L	A	G	R	R	R	K	K	S	K	T	S	N	Y	L	I	S	V	D	P	GI 1279766			
279	GMYP	T	Y	F	L	H	L	D	R	E	D	G	K	K	V	F	L	L	A	G	R	R	K	K	S	K	T	S	N	Y	L	I	S	V	D	P	GI 1305497				
256	V	D	L	S	R	E	G	E	S	Y	V	G	K	L	R	S	N	L	M	G	T	K	F	T	V	Y	D	R	G	I	C	P	M	K	G	R	G	-	L	V	492199
318	T	D	L	S	R	G	D	S	Y	I	G	K	L	R	S	N	L	M	G	T	K	F	T	V	Y	D	N	G	V	N	P	Q	K	A	S	S	T	L	GI 1279766		
319	T	D	L	S	R	G	D	S	Y	I	G	K	L	R	S	N	L	M	G	T	K	F	T	V	Y	D	N	G	V	N	P	Q	K	A	S	S	T	L	GI 1305497		
295	G	A	A	H	T	R	Q	E	L	A	A	I	S	Y	E	T	N	V	L	G	F	K	G	P	R	K	M	S	V	I	I	P	G	M	T	L	N	H	K	O	492199
358	E	S	G	T	L	R	Q	E	L	A	A	V	C	Y	E	T	N	V	L	G	F	K	G	P	R	K	M	S	V	I	V	P	G	M	N	M	V	H	E	R	GI 1279766
359	E	S	G	T	L	R	Q	E	L	A	A	V	C	Y	E	T	N	V	L	G	F	K	G	P	R	K	M	S	V	I	V	P	G	M	N	M	V	H	E	R	GI 1305497
335	I	P	Y	O	P	O	N	N	H	D	S	L	L	S	R	W	Q	N	R	T	M	E	N	L	V	E	L	H	N	K	A	P	V	W	N	S	D	T	Q	S	492199
398	V	C	I	R	P	R	N	E	H	E	T	L	L	A	R	W	Q	N	K	N	T	E	S	I	I	E	L	Q	N	K	T	P	V	W	N	D	T	Q	S	GI 1279766	
399	V	S	I	R	P	R	N	E	H	E	T	L	L	A	R	W	Q	N	K	N	T	E	S	I	I	E	L	Q	N	K	T	P	V	W	N	D	T	Q	S	GI 1305497	
375	Y	V	L	N	F	R	G	R	V	T	Q	A	S	V	K	N	F	Q	I	V	H	K	N	D	P	D	Y	I	V	M	Q	F	G	R	V	A	D	D	V	F	492199
438	Y	V	L	N	F	H	G	R	V	T	Q	A	S	V	K	N	F	Q	I	I	H	G	N	D	P	D	Y	I	V	M	Q	F	G	R	V	A	E	D	V	F	GI 1279766
439	Y	V	L	N	F	H	G	R	V	T	Q	A	S	V	K	N	F	Q	I	I	H	G	N	D	P	D	Y	I	V	M	Q	F	G	R	V	A	E	D	V	F	GI 1305497
415	T	L	D	Y	N	Y	P	L	C	A	V	Q	A	F	G	I	G	L	S	S	F	D	K	R	I	Q	T	L	R	M	Q	E	L	C	E	L	H	R	Q	H	492199
478	T	M	D	Y	N	Y	P	L	C	A	L	Q	A	F	A	I	A	L	S	S	F	D	S	K	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GI 1279766	
479	T	M	D	Y	N	Y	P	L	C	A	L	Q	A	F	A	I	A	L	S	S	F	D	S	K	L	-	-	-	-	-	-	-	-	-	-	-	-	-	GI 1305497		
455	H	S	A	S	L	V	H	R	T	A	C	O	R	W																											

FIGURE 2B

FIGURE 3A



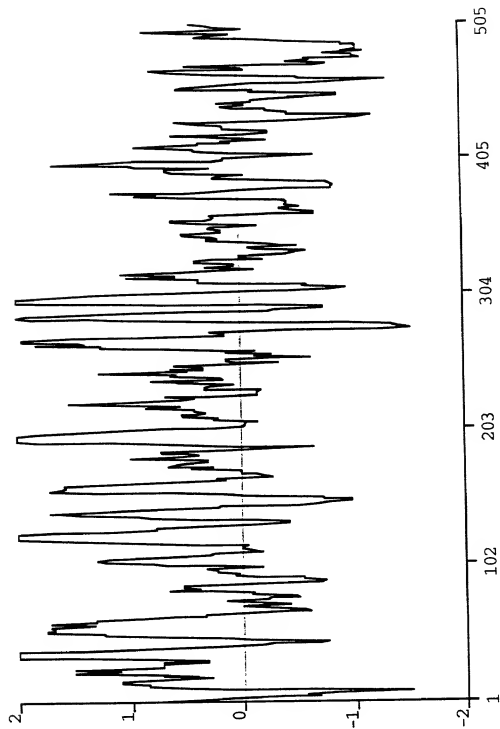


FIGURE 3B